

**Table CT4. Residential Sector Energy Consumption Estimates, Selected Years, 1960-2016, Michigan**

Year	Coal <sup>a</sup> Thousand Short Tons	Natural Gas <sup>b</sup> Billion Cubic Feet	Petroleum				Biomass Wood <sup>d</sup> Thousand Cords	Geothermal <sup>e</sup>	Solar <sup>e,f</sup>	Retail Electricity Sales	Net Energy <sup>e,g</sup>	Electrical System Energy Losses <sup>h</sup>	Total <sup>e,g</sup>
			Distillate Fuel Oil	HGL <sup>c</sup>	Kerosene	Total				Million Kilowatthours			
										Thousand Barrels			
1960	1,414	202	17,380	2,090	765	20,234	1,103	--	--	8,728	--	--	--
1965	1,007	271	16,334	2,528	1,279	20,141	890	--	--	11,309	--	--	--
1970	481	340	18,839	4,842	545	24,226	829	--	--	17,103	--	--	--
1975	119	335	19,420	5,625	302	25,347	796	--	--	20,886	--	--	--
1980	65	387	9,195	3,637	83	12,915	2,115	--	--	22,260	--	--	--
1985	56	341	6,192	4,771	425	11,389	2,193	--	--	22,302	--	--	--
1990	54	327	4,842	7,045	217	12,104	1,373	--	--	25,319	--	--	--
1995	33	380	3,815	8,637	233	12,685	739	--	--	28,623	--	--	--
1996	32	400	3,859	11,594	230	15,682	768	--	--	28,901	--	--	--
1997	21	380	3,662	10,955	254	14,871	503	--	--	28,726	--	--	--
1998	16	320	2,653	10,238	272	13,163	447	--	--	29,808	--	--	--
1999	2	351	2,994	11,599	606	15,200	459	--	--	30,661	--	--	--
2000	2	368	2,902	11,940	356	15,199	494	--	--	30,707	--	--	--
2001	1	344	2,654	14,923	222	17,799	673	--	--	32,305	--	--	--
2002	32	368	2,212	15,937	160	18,310	683	--	--	34,336	--	--	--
2003	4	386	2,283	15,801	264	18,348	719	--	--	33,669	--	--	--
2004	18	362	2,040	13,772	221	16,033	737	--	--	33,104	--	--	--
2005	12	359	1,945	15,437	219	17,601	1,270	--	--	36,095	--	--	--
2006	1	316	1,504	9,483	153	11,140	1,126	--	--	34,622	--	--	--
2007	17	328	1,371	10,916	95	12,383	1,245	--	--	35,366	--	--	--
2008	0	342	1,208	10,215	49	11,472	1,393	--	--	34,297	--	--	--
2009	0	327	909	9,925	71	10,904	933	--	--	32,854	--	--	--
2010	0	304	673	9,139	64	9,876	814	--	--	34,681	--	--	--
2011	0	318	670	8,667	46	9,384	833	--	--	34,811	--	--	--
2012	0	277	459	7,056	15	7,531	777	--	--	34,461	--	--	--
2013	0	334	561	9,598	23	10,181	1,074	--	--	34,013	--	--	--
2014	0	355	701	10,292	35	11,028	1,087	--	--	33,515	--	--	--
2015	0	312	511	8,582	29	9,122	806	--	--	33,358	--	--	--
2016	0	294	461	9,036	29	9,525	647	--	--	34,543	--	--	--

**Trillion Btu**

1960	35.0	209.0	101.2	8.0	4.3	113.6	22.1	NA	NA	29.8	409.5	73.6	483.1
1965	24.8	274.8	95.1	9.7	7.3	112.1	17.8	NA	NA	38.6	468.1	92.1	560.2
1970	11.4	345.1	109.7	18.6	3.1	131.4	16.6	NA	NA	58.4	562.9	141.2	704.1
1975	2.8	343.0	113.1	21.6	1.7	136.4	15.9	NA	NA	71.3	569.4	170.9	740.3
1980	1.6	394.9	53.6	14.0	0.5	68.0	42.3	NA	NA	76.0	582.7	182.5	765.1
1985	1.4	348.9	36.1	18.3	2.4	56.8	43.9	NA	NA	76.1	525.6	174.3	699.8
1990	1.3	341.9	28.2	27.0	1.2	56.5	27.5	0.6	0.2	86.4	506.7	220.4	727.1
1995	0.8	395.4	22.2	33.1	1.3	56.7	14.8	0.7	0.3	97.7	557.3	211.1	768.4
1996	0.8	413.2	22.5	44.5	1.3	68.2	15.4	0.8	0.3	98.6	588.1	220.8	808.9
1997	0.5	395.1	21.3	42.0	1.4	64.8	10.1	0.8	0.3	98.0	560.4	222.5	782.9
1998	0.4	334.7	15.4	39.3	1.5	56.3	8.9	0.8	0.3	101.7	494.4	239.4	733.9
1999	0.1	365.3	17.4	44.5	3.4	65.4	9.2	0.9	0.3	104.6	537.4	240.9	778.3
2000	(s)	381.1	16.9	45.8	2.0	64.7	9.9	0.9	0.2	104.8	556.6	244.0	800.6
2001	(s)	354.4	15.4	57.2	1.3	73.9	13.5	1.0	0.2	110.2	551.6	255.9	807.5
2002	0.8	375.5	12.9	61.1	0.9	74.9	13.7	1.1	0.2	117.2	583.3	271.5	854.8
2003	0.1	397.1	13.3	60.6	1.5	75.4	14.4	1.4	0.2	114.9	603.5	263.8	867.3
2004	0.4	371.1	11.9	52.8	1.3	66.0	14.7	1.5	0.2	112.9	567.0	262.4	829.4
2005	0.3	364.0	11.3	59.2	1.2	71.8	25.4	1.8	0.3	123.2	586.6	287.4	874.1
2006	(s)	321.5	8.7	36.4	0.9	46.0	22.5	2.1	0.3	118.1	510.5	274.6	785.1
2007	0.4	335.7	7.9	41.9	0.5	50.3	24.9	2.5	0.4	120.7	534.9	278.6	813.5
2008	0.0	350.0	7.0	39.2	0.3	46.4	27.9	3.0	0.4	117.0	544.7	263.1	807.8
2009	0.0	334.2	5.3	38.1	0.4	43.7	18.7	3.7	0.4	112.1	512.8	242.6	755.4
2010	0.0	309.3	3.9	35.1	0.4	39.3	16.3	4.2	0.4	118.3	487.8	260.0	747.8
2011	0.0	322.4	3.9	33.2	0.3	37.4	16.7	4.0	0.5	118.8	499.7	260.9	760.6
2012	0.0	281.5	2.6	27.1	0.1	29.8	15.5	4.3	0.5	117.6	449.2	251.7	700.9
2013	0.0	341.2	3.2	36.8	0.1	40.2	21.5	4.3	0.5	116.1	523.8	248.3	772.1
2014	0.0	361.3	4.0	39.5	0.2	43.7	21.7	4.3	0.6	114.4	546.0	242.7	788.7
2015	0.0	R 322.4	3.0	32.9	0.2	R 36.0	R 16.1	4.3	0.6	113.8	R 493.3	227.1	R 720.4
2016	0.0	306.8	2.7	34.7	0.2	37.5	12.9	4.3	0.7	117.9	480.1	233.7	713.8

a Beginning in 2008, data are no longer collected and are assumed to be zero.  
b Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.  
c Hydrocarbon gas liquids, assumed to be propane only.  
d Wood and wood-derived fuels.  
e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.  
f Solar thermal and photovoltaic energy. Includes solar thermal energy consumed as heat by the commercial and industrial sectors.  
g Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

h Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.  
-- = Not applicable. NA = Not available.  
Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.  
Notes: Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.  
Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.